



PATENT
Attorney Docket No. WMI-004CN1
(8415/8)

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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Technology Center 2600

APPLICANTS: Sarachick et al.
SERIAL NO.: 09/697,479• GROUP NO.: 2621
FILING DATE: October 26, 2000 EXAMINER: Not Yet Assigned
TITLE: SINGLE-PASS MULTILEVEL METHOD FOR APPLYING
MORPHOLOGICAL OPERATORS IN MULTIPLE DIMENSIONS

Assistant Commissioner for Patents
Washington, D.C. 20231

INFORMATION DISCLOSURE STATEMENT

Sir:

In accordance with the provisions of 37 C.F.R. 1.97 and 1.98, Applicants hereby make of record the patents and publications listed on the accompanying Form PTO-1449, and other information contained herein, for consideration by the Examiner in connection with the examination of the above-identified patent application. Copies of the patents and publications are enclosed.

REMARKS

In accordance with the provisions of 37 C.F.R. 1.97, this statement is being filed (CHECK ONE):

- ☒ (1) within three (3) months of the **filing date** of a national application other than a continued prosecution application under 37 C.F.R. 1.53(d), or within three (3) months of the **date of entry of the national stage** as set forth in 37 C.F.R. 1.491 in an international application, or before the mailing of the **first Office action** on the merits, or before the mailing of a **first Office action** after the filing of a request for continued examination under 37 C.F.R. 1.114; or
- ☐ (2) after the period defined in (1) but before the mailing date of a **final action** or a **notice of allowance** under 37 C.F.R. 1.311, and
- ☐ the requisite Statement is below, **OR**
- ☐ the requisite fee under 37 C.F.R. 1.17(p), namely **\$180.00**, is included herein, or

- ☐ (3) after the mailing date of a **final action** or **notice of allowance** but before the payment of the **issue fee**, **AND**
- ☐ the requisite Statement is below, **AND**
- ☐ the requisite petition fee under 37 C.F.R. 1.17(p), namely **\$180.00** is included herein.

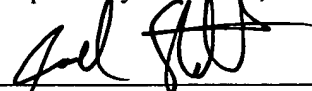
It is respectfully requested that each of the patents and publications listed on the attached Form PTO-1449, and other information contained herein, be made of record in this application.

STATEMENT

As required under 37 C.F.R. 1.97(e), Applicant(s), through the undersigned, hereby state either that [check the appropriate space only if either (2) or (3) is checked on the previous page and the Statement is required]:

- ☐ 1. Each item of information contained in the Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application **not more than three months** prior to the filing of the Information Disclosure Statement; or
- ☐ 2. No item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing this Statement after making reasonable inquiry, no item of information contained in the Information Disclosure Statement was known to **any individual** designated in 37 C.F.R. 1.56(c) **more than three months** prior to the filing of the Information Disclosure Statement.

Respectfully submitted,



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FORM PTO - 1449

INFORMATION DISCLOSURE STATEMENT

ATTORNEY DOCKET NO.: WMI-004CN1

APPLICANTS: Sarachick, et al.

SERIAL NO.: 09/697,479

FILING DATE: October 26, 2000 GROUP: 2621

U.S. PATENT DOCUMENTS

EXAM. INIT.		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
	A1	5,452,372	09/19/95	Shirasaka et al.	382	199	11/22/94
	A2	5,786,855	07/28/98	Chen et al.	348	391	10/26/95
	A3	5,790,269	08/04/98	Masaki et al.	358	447	12/12/95
	A4	5,838,828	11/17/98	Mizuki et al.	382	236	12/12/95
	A5	5,848,352	12/08/98	Dougherty et al.	455	5.1	04/26/9
	A6	5,883,670	03/16/99	Sporer et al.	348	384	08/02/96
	A7	5,912,675	06/15/99	Laperriere	345	473	12/19/96
	A8	5,912,994	06/15/99	Norton et al.	382	283	10/27/95
	A9	5,969,755	10/19/99	Courtney	348	143	02/05/97
	A10	6,016,152	01/18/00	Dickie	345	436	08/01/97
	A11	6,084,588	07/04/00	De Haan	345	419	04/08/97
	A12	6,169,573 B1	01/02/01	Sampath-Kumar et al.	348	169	07/03/97
	A13	6,205,231 B1	03/20/01	Isadore-Barreca et al.	382	103	05/10/95

FOREIGN PATENT DOCUMENTS

EXA M. INIT.		DOCUMENT NUMBER	DATE	COUNTR Y CODE	CLASS	SUB CLAS S	FILING DATE	ABSTRACT ONLY	ENGLISH LANG (Y/N)
	B1	0 840 241 A1	05/06/98	EP	G06F	17/30	10/23/97	N	Y
	B2	1 051 039 A2	11/08/00	EP	H04N	7/24	04/05/00	N	Y
	B3	96/36007	11/14/96	WO	G06K	9/00	05/10/96	N	Y
	B4	97/22083	06/19/97	WO	G06K	9/00	12/12/96	N	Y
	B5	97/33437	09/12/97	WO	H04N	9/74 9/75	03/06/97	N	Y
	B6	98/11512	03/09/98	WO	G06T	15/70	09/09/97	N	Y
	B7	99/52081	10/14/99	WO	G06T	15/70	03/31/99	N	Y

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	B8	00/46753	08/10/00	WO	G06T	11/40	02/02/00	N	Y
	B9	00/46754	08/10/00	WO	G06T	11/40	02/03/00	N	Y
	B10	00/63848	10/26/00	WO	G06T	15/70	04/13/00	N	Y
	B11	00/77664 A2	12/21/00	WO	G06F	17/00	06/08/00	N	Y
	B12	01/18676 A1	03/15/01	WO	G06F	17/00	09/02/00	N	Y
	B13	01/18678 A2	03/15/01	WO	G06F	17/00	09/07/00	N	Y
	B14	01/18706 A2	03/15/01	WO	G06F	17/60	08/28/00	N	Y

OTHER ART, JOURNAL ARTICLES, ETC.

EXA M. INIT.	OTHER DOCUMENTS: (Including Author, Title, Date, Relevant Pages, Place of Publication)	
	C1	Bove et al., "Adding Hyperlinks to Digital Television", Pgs. 795-801, SMPTE Journal, SMPTE Inc. Scarsdale, N.Y., US, Vol. 108, No. 11, November 1999
	C2	Brigger and Kunt, "Morphological Shape Representation For Very Low Bit-Rate Video Coding", pgs. 297-311, Signal Processing: Image Communication, NL, Elsevier Science Publishers, Amsterdam, Vol. 7, No. 4
	C3	Burill et al., "Time-Varying Sensitive Regions in Dynamic Multimedia Objects: a Pragmatic Approach to Content-Based Retrieval From Video", pgs. 213-223, Information and software Technology 1994
	C4	Chalom, "Statistical Image Sequence Segmentation Using Multidimensional Attributes", 202 pgs., Massachusetts Institute of Technology Philosophy Thesis, January 1998
	C5	Chalom, et al., "Segmentation of an Image Sequence Using Multi-Dimensional Image Attributes", 4 pgs., Proceedings of the ICIP-96, September 1996
	C6	Dakss et al., "Hyperlinked Video", Proceedings of the SPIE Conference on Multimedia Systems and Applications, Boston, November 1998, SPIE vol. 3528
	C7	Ginige et al. "Hypermedia Authoring" pgs. 24-35, University of Technology, Sydney, IEEE MultiMedia, Winter 1995
	C8	Hirata et al, "Content-Oriented Integration in Hypermedia Systems", (pg. 11-21), Washington, March 16-20, 1996, New York, ACM, US, vol. CONF. 7, 16 March 1996
	C9	IBM Technical Disclosure Bulletin, "User-Controlled Display of Hypermedia Links Via Mouse Location", Page 669, Volume 36, No. 8, August 1993
	C10	IBM Technical Disclosure Bulletin, "Visual Behavior of Multimedia Hypervideo Links for Motion Video", Page 409, Volume 37, No. 1, January 1994
	C11	Pardas et al., "3D Morphological Segmentation for Image Sequence Processing", pgs. 6.1_3.1 - 6.1_3.6, Nonlinear Digital Signal Processing, 17-20 January 1993, Barcelona, Spain. [online], [retrieved from the Internet] <URL:http://ieeexplore.ieee.org/ie15/6208/16581/00767733.pdf> [retrieved on 2001-07-16] abstract
	C12	PCT International Search Report for International Application No.: PCT/US01/06411, mailed on December 13, 2001
	C13	Salembier et al., "Segmentation-Based Video Coding System Allowing the Manipulation of Objects", pgs. 60-73, IEEE Transactions on Circuits and Systems for Video Technology, IEE Inc., New York, US, Vol. 7, No. 1, February 1997



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	C14	Tonomura, " Video Handling Based on Structured Information for Hypermedia Systems", pgs. 333-344, In Proceedings International Conference on Multimedia Information Systems, Singapore, 1991
	C15	Vasconcelos et al., "Learning Mixture Hierarchies", 7 pgs., NIPS'98, 1998
	C16	Vass et al., "Automatic Spatio-Temporal Video Sequence Segmentation", pgs. 958-962, Proceedings of the 1998 International Conference on Image Processing, 4-7 October 1998, Chicago, IL, USA, [online], [retrieved from the Internet] <URL:http://ieexplore.ieee.org/iel4/5852/15617/00723681.pdf> , [retrieved on 2001-07-16], abstract
EXAMINER		DATE CONSIDERED

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